

INTERNATIONAL SEARCH REPORT

International Application No

T/GB2004/002707

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/202 A61K31/07 A61K31/122 A61K31/015 A61K31/01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 699 437 A (PROSPA BV) 6 March 1996 (1996-03-06) page 1, paragraph 2 page 1, line 29 page 4, paragraphs 4,5 -----	1,6, 9-11,21, 23,24, 26,27,31
X	WO 02/102394 A (SAMPALIS TINA ; NEPTUNE TECHNOLOGIES & BIORESS (CA)) 27 December 2002 (2002-12-27) page 1, paragraph 3 page 2, line 22 - page 3, line 14 claims 28,29 ----- -/-	1,6,14, 15,21, 23,24, 26,27, 29,31

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

10 January 2005

Date of mailing of the international search report

20/01/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 444 054 A (DEMICHELE STEPHEN J ET AL) 22 August 1995 (1995-08-22) claims 10,11 table 3	1,3,5,6, 12-16, 19-21, 23,24, 26-29,31
X	WO 98/37874 A (ALEJUNG PAER ; ASTACAROTENE AB (SE); WADSTROEM TORKEL (SE)) 3 September 1998 (1998-09-03) cited in the application page 1, paragraph 1 claims	23,24, 27-29,31
Y	WO 01/24787 A (BOETTIGER PER ; ASTACAROTENE AB (SE); LIGNELL AAKE (SE)) 12 April 2001 (2001-04-12) claims	1-31
Y	GUERIN M ET AL: "Haematococcus astaxanthin: applications for human health and nutrition" TRENDS IN BIOTECHNOLOGY, ELSEVIER PUBLICATIONS, CAMBRIDGE, GB, vol. 21, no. 5, May 2003 (2003-05), pages 210-216, XP004422156 ISSN: 0167-7799 page 212, column 2, paragraphs 2,3	1-31
Y	WANG X ET AL: "Astaxanthin-rich algal meal and vitamin C inhibit Helicobacter pylori infection in BALB/cA mice" ANTIMICROBIAL AGENTS AND CHEMOTHERAPY 2000 UNITED STATES, vol. 44, no. 9, 2000, pages 2452-2457, XP008039976 ISSN: 0066-4804 abstract	1-31
Y	MURTHY R ET AL: "Omega-3 fatty acids as anti-inflammatory agents: A classical group of nutraceuticals" JOURNAL OF NUTRACEUTICALS, FUNCTIONAL AND MEDICAL FOODS 1999 UNITED STATES, vol. 2, no. 1, 1999, pages 53-72, XP008039978 ISSN: 1089-4179 abstract	1-31
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 03/082313 A (ALCON INC ; KAZHDAN PAVEL (IL); BIODAR LTD (IL); BLATT YOAV (IL); PINT) 9 October 2003 (2003-10-09) page 3, line 3 - line 11 example 3 claim 3	1,3,6, 13-15
E	----- WO 2004/082399 A (ADVANCED BIONUTRITON CORP ; HAREL MOTI (US); KYLE DAVID J (US); PIECHO) 30 September 2004 (2004-09-30) claims 64,66-72	16-21
E	----- WO 2004/080196 A (CLAYTON DIANE ; HAREL MOTI (US); ADVANCED BIONUTRITION CORP (US)) 23 September 2004 (2004-09-23) tables 1,2 -----	16-18, 20,21

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 23-31 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Information on patent family members

International Application No

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